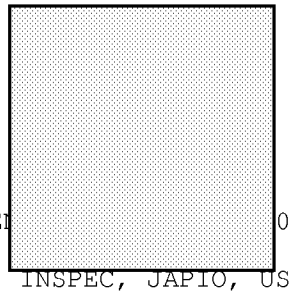

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=> d his

     (FILE 'HOME' EN                0 ON 27 MAR 2008)

     FILE 'HCAPLUS, INSPEC, JAPIO, USPATFULL, USPATOLD, USPAT2' ENTERED AT
     12:46:23 ON 27 MAR 2008
L1       602726 S (SINGLE OR MONO)(8A)(CRYSTAL?)
L2       258408 S (SOLID(W)PHASE#)
L3       191864 S (SOLIDIFICAT?)
L4          645 S (INTERFACE)(8A)(THERMAL(W)GRADIENT#)
L5        13713 S (HEAT? OR ANNEAL?)(8A)(LIQUID(W)PHASE#)
L6      1012133 S (ELECTROMAGNET?)
L7        22338 S (FIRST OR PRIMARY)(8A)(GAS(4A)PRESSURE#)
L8        20643 S (SECOND?)(8A)(GAS(4A)PRESSURE#)

=> s l1 and l2 and l3 and l4 and l5 and l6 and l7 and l8
L9           16 L1 AND L2 AND L3 AND L4 AND L5 AND L6 AND L7 AND L8

=> d l9 1-16 abs,bib

L9   ANSWER 1 OF 16  USPATFULL on STN
AB     A device for manufacturing a single-crystal
       solid phase by solidification of a liquid
       phase, comprising: a crucible capable of containing the solid
       phase and the liquid phase, the liquid phase being in contact
       with the crucible and the solid phase being
       separated from the crucible by an interstice; and a heating
       mechanism for heating the liquid phase
       capable of creating a thermal gradient at the level
       of an interface between the liquid phase and the solid
       phase, electromagnetic field generation, distinct from
       the heating mechanism, for applying an electromagnetic
       pressure on the junction surface of the liquid phase at the level of the
       interface comprising at least one spiral surrounding the crucible, and
       placed opposite to the area in which the interface forms in operation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN     2007:318418  USPATFULL
TI     Method and Device for Producting Monocrystals
IN     Duffar, Thierry, Grenoble, FRANCE
       Fournier-Gagnoud, Annie, St Ismier, FRANCE
PI     US 2007277729       A1  20071206
AI     US 2005-587368      A1  20050217 (10)
       WO 2005-US5055          20050217
                               20070507  PCT 371 date
PRAI   FR 2004-50177       20040130
DT     Utility
FS     APPLICATION
LREP   PLEVY, HOWARD & DARCY, P.C., P.O. BOX 226, Fort Washington, PA, 19034,
       US
CLMN   Number of Claims: 4
ECL    Exemplary Claim: 1
DRWN   2 Drawing Page(s)
LN.CNT 271
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9   ANSWER 2 OF 16  USPATFULL on STN
AB     An in situ process for treating a hydrocarbon containing formation is
       provided. The process may include providing heat from one or more
       heaters to at least a portion of the formation. The heat may be allowed
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to transfer from the reaction zone to a part of the formation such that heat from one or more heaters pyrolyzes at least some hydrocarbons within the part of the formation. A blending agent may be produced from the part of the formation, wherein a mixture produced with the blending agent has at least one selected property.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2004:54723 USPATFULL
TI In situ production of a blending agent from a hydrocarbon containing formation
IN Wellington, Scott Lee, Bellaire, TX, UNITED STATES
Karanikas, John Michael, Houston, TX, UNITED STATES
Maher, Kevin Albert, Bellaire, TX, UNITED STATES
Sumnu-Dindoruk, Meliha Deniz, Houston, TX, UNITED STATES
Vinegar, Harold J., Bellaire, TX, UNITED STATES
PI US 2004040715 A1 20040304
US 7086465 B2 20060808
AI US 2002-279227 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8960
ECL Exemplary Claim: 1
DRWN 440 Drawing Page(s)
LN.CNT 64262
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 16 USPATFULL on STN
AB In an embodiment, a system may be used to heat a hydrocarbon containing formation. The system may include a conduit placed within an opening in the formation. A conductor may be placed within the conduit. The conductor may provide heat to a portion of the formation. In some embodiments, an electrically conductive material may be coupled to a portion of the conductor in the overburden. The electrically conductive material may lower the electrical resistance of the portion of the conductor in the overburden. Lowering the electrical resistance of the portion of the conductor in the overburden may reduce the heat output of the portion in the overburden. The system may allow heat to transfer from the conductor to a section of the formation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2004:28518 USPATFULL
TI In situ recovery from a hydrocarbon containing formation using conductor-in-conduit heat sources with an electrically conductive material in the overburden
IN Vinegar, Harold J., Bellaire, TX, UNITED STATES
Bass, Ronald Marshall, Houston, TX, UNITED STATES
PI US 2004020642 A1 20040205
US 7165615 B2 20070123
AI US 2002-279288 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION

LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8949
ECL Exemplary Claim: 1
DRWN 440 Drawing Page(s)
LN.CNT 61952
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 16 USPATFULL on STN
AB A method for treating lean and rich zones of a hydrocarbon containing formation is provided. In one embodiment, heat from one or more heaters may be provided to at least a portion of the formation. Heat may be allowed to transfer from the one or more heaters to a first part of the formation. In certain embodiments, the heat from the one or more heaters may pyrolyze at least some hydrocarbons within the first part of the formation. The method may include producing a mixture through a second part of the formation. In some embodiments, the produced mixture may include at least some pyrolyzed hydrocarbons from the first part of the formation. In an embodiment, the second part of the formation may have a higher permeability than the first part of the formation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:292384 USPATFULL
TI In situ recovery from lean and rich zones in a hydrocarbon containing formation
IN Wellington, Scott Lee, Bellaire, TX, UNITED STATES
Rouffignac, Eric Pierre de, Houston, TX, UNITED STATES
Vinegar, Harold J., Bellaire, TX, UNITED STATES
PI US 2003205378 A1 20031106
US 7066257 B2 20060627
AI US 2002-279222 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8958
ECL Exemplary Claim: 1
DRWN 440 Drawing Page(s)
LN.CNT 64278
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 16 USPATFULL on STN
AB Systems and methods of using a computer system to simulate a process for in situ treatment of a hydrocarbon containing formation are provided. The in situ process may include providing heat from one or more heat sources to at least one portion of the formation. The in situ process may, in some embodiments, include allowing the heat to transfer from the one or more heat sources to a selected section of the formation. In some embodiments, the method may include operating the in situ process using one or more operating parameters. At least one operating parameter of the in situ process may be provided to the computer system. In certain embodiments, at least one parameter may be used with a simulation method and the computer system to provide assessed information about the in situ process.

AN 2003:286356 USPATFULL
TI In situ recovery from a hydrocarbon containing formation using one or

more simulations
IN Karanikas, John Michael, Houston, TX, UNITED STATES
Berchenko, Ilya Emil, Friendswood, TX, UNITED STATES
Rouffignac, Eric Pierre de, Houston, TX, UNITED STATES
Ginestra, Jean-Charles, Richmond, TX, UNITED STATES
Hansen, Kirk Samuel, Houston, TX, UNITED STATES
Schoeling, Lanny Gene, Katy, TX, UNITED STATES
Shahin, Gordon Thomas, JR., Bellaire, TX, UNITED STATES
Sumnu-Dindoruk, Meliha Deniz, Houston, TX, UNITED STATES
Vinegar, Harold J., Bellaire, TX, UNITED STATES
PI US 2003201098 A1 20031030
AI US 2002-279224 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8961
ECL Exemplary Claim: 1
DRWN 440 Drawing Page(s)
LN.CNT 64206

L9 ANSWER 6 OF 16 USPATFULL on STN
AB A method for treating a hydrocarbon containing formation is provided. In one embodiment, heat from one or more heaters may be provided to at least a portion of the formation. Heat may be allowed to transfer from the one or more heaters to at least a part of the formation. In certain embodiments, the heat from the one or more heaters may pyrolyze at least some hydrocarbons in the formation. In an embodiment, a first fluid may be introduced into at least a portion of the formation. The portion may have previously undergone an in situ conversion process. A mixture of the first fluid and a second fluid may be produced from the formation. Such mixture may, in some embodiments, be treated or burned.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:280476 USPATFULL
TI Treatment of a hydrocarbon containing formation after heating
IN Vinegar, Harold J., Bellaire, TX, UNITED STATES
Rouffignac, Eric Pierre de, Houston, TX, UNITED STATES
Madgavkar, Ajay Madhav, Katy, TX, UNITED STATES
Maher, Kevin Albert, Bellaire, TX, UNITED STATES
McKinzie,, Billy John, II, Houston, TX, UNITED STATES
Palfreyman, Bruce Donald, Houston, TX, UNITED STATES
Ryan, Robert Charles, Houston, TX, UNITED STATES
Stegemeier, George Leo, Houston, TX, UNITED STATES
Ward, John Michael, Katy, TX, UNITED STATES
Wellington, Scott Lee, Bellaire, TX, UNITED STATES
PI US 2003196810 A1 20031023
US 7128153 B2 20061031
AI US 2002-279294 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463

CLMN Number of Claims: 8961
ECL Exemplary Claim: 1
DRWN 440 Drawing Page(s)
LN.CNT 64261
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 7 OF 16 USPATFULL on STN
AB A process for producing hydrocarbons through a heater wellbore positioned in a hydrocarbon containing formation. The in situ treatment process may include providing heat from one or more heaters to at least a portion of the formation. The heat may be allowed, in some embodiments, to transfer from one or more heaters to a selected section of the formation. Heat that is allowed to transfer to the selected section may pyrolyze at least some of the hydrocarbons within the selected section. The process may include, in some embodiments, selectively limiting a temperature proximate a selected portion of a heater wellbore to inhibit coke formation at or near the selected portion. In some embodiments fluids may be produced at certain locations of a heater wellbore such that coke formation is inhibited.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:280467 USPATFULL
TI In situ thermal processing of a hydrocarbon containing formation via backproducing through a heater well
IN Vinegar, Harold J., Bellaire, TX, UNITED STATES
Rouffignac, Eric Pierre de, Den Haag, NETHERLANDS
Karanikas, John Michael, Houston, TX, UNITED STATES
Wellington, Scott Lee, Bellaire, TX, UNITED STATES
PI US 2003196801 A1 20031023
US 6932155 B2 20050823
AI US 2002-279221 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8959
ECL Exemplary Claim: 1
DRWN 440 Drawing Page(s)
LN.CNT 64277
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 8 OF 16 USPATFULL on STN
AB An in situ treatment process may include providing heat from one or more heaters to at least a portion of the formation. The heat may be allowed to transfer from the one or more heaters to a part of the formation. A fluid may be produced from at least part of the formation. Heat and/or other products in or from fluids produced from the formation may be used for hydrotreating.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:280455 USPATFULL
TI In situ thermal processing of a hydrocarbon containing formation and upgrading of produced fluids prior to further treatment
IN Wellington, Scott Lee, Bellaire, TX, UNITED STATES
Madgavkar, Ajay Madhav, Katy, TX, UNITED STATES
Ryan, Robert Charles, Houston, TX, UNITED STATES
PI US 2003196789 A1 20031023

AI US 2002-279226 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8938
ECL Exemplary Claim: 1
DRWN 440 Drawing Page(s)
LN.CNT 64174
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 16 USPATFULL on STN
AB A method for treating a hydrocarbon containing formation is provided. In one embodiment, heat from one or more heaters may be provided to at least a portion of the formation. Heat may be allowed to transfer from the one or more heaters to at least a part of the formation. In certain embodiments, the heat from the one or more heaters may pyrolyze at least some hydrocarbons within the formation. In an embodiment, a first fluid may be introduced into at least a portion of the formation. The portion may have previously undergone an in situ conversion process. A mixture of the first fluid and a second fluid (or a second compound) may be produced from the formation. In some embodiments, a first fluid may be provided to the formation prior to pyrolyzing hydrocarbons in the formation, and a second fluid (or a second compound) may be produced prior to pyrolyzing hydrocarbons in the formation. In some embodiments the second fluid or second compound include minerals, metals, salts, or other compounds that may be recovered.

AN 2003:280454 USPATFULL
TI Producing hydrocarbons and non-hydrocarbon containing materials when treating a hydrocarbon containing formation
IN Vinegar, Harold J., Bellaire, TX, UNITED STATES
Rouffignac, Eric Pierre de, Den Haag, NETHERLANDS
Maher, Kevin Albert, Bellaire, TX, UNITED STATES
Schoeling, Lanny Gene, Katy, TX, UNITED STATES
Wellington, Scott Lee, Bellaire, TX, UNITED STATES
PI US 2003196788 A1 20031023
US 7100994 B2 20060905
AI US 2002-279229 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8932
ECL Exemplary Claim: 1
DRWN 440 Drawing Page(s)
LN.CNT 64202

L9 ANSWER 10 OF 16 USPATFULL on STN
AB A process for utilizing the heat from fluids produced from a hydrocarbon containing formation, which has been treated in situ. The in situ treatment process may include providing heat from one or more heaters to at least a portion of the formation. The heat may be allowed to transfer

from one or more heaters to a part of the formation such that heat from the one or more heaters pyrolyzes at least some hydrocarbons within the part of the formation. Hydrocarbons may be produced from the formation. In an embodiment, heat from the produced fluids may be used for other processes. Examples of other processes may include, but are not limited to, hydrotreating, separations, steam cracking, olefin production, etc.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:274680 USPATFULL
TI In situ thermal processing of a hydrocarbon containing formation to produce heated fluids
IN Wellington, Scott Lee, Bellaire, TX, UNITED STATES
PI US 2003192693 A1 20031016
US 7090013 B2 20060815
AI US 2002-279290 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8951
ECL Exemplary Claim: 1
DRWN 440 Drawing Page(s)
LN.CNT 64242
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 11 OF 16 USPATFULL on STN
AB A method is described for inhibiting migration of fluids into and/or out of a treatment area undergoing an in situ conversion process. Barriers in the formation proximate a treatment area may be used to inhibit migration of fluids. Inhibition of migration of fluids may occur before, during, and/or after an in situ treatment process. For example, migration of fluids may be inhibited while heat is provided from heaters to at least a portion of the treatment area. Barriers may include naturally occurring portions (e.g., overburden, and/or underburden) and/or installed portions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:274678 USPATFULL
TI In situ recovery from a hydrocarbon containing formation using barriers
IN Vinegar, Harold J., Bellaire, TX, UNITED STATES
Aymond, Dannie Antoine, JR., Houston, TX, UNITED STATES
Maher, Kevin Albert, Bellaire, TX, UNITED STATES
McKinzie,, Billy J., II, Houston, TX, UNITED STATES
Palfreyman, Bruce Donald, Houston, TX, UNITED STATES
Stegemeier, George Leo, Houston, TX, UNITED STATES
Ward, John Michael, Katy, TX, UNITED STATES
Watkins, Ronnie Wade, Cypress, TX, UNITED STATES
Wellington, Scott Lee, Bellaire, TX, UNITED STATES
PI US 2003192691 A1 20031016
US 7077198 B2 20060718
AI US 2002-279291 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION

LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8958
ECL Exemplary Claim: 1
DRWN 440 Drawing Page(s)
LN.CNT 64262
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 12 OF 16 USPATFULL on STN
AB In an embodiment, a method for heating a hydrocarbon containing formation may include providing heat from one or more heaters to an opening in the formation. A first end of the opening may contact the earth's surface at a first location and a second end of the opening may contact the earth's surface at a second location. The heat may be allowed to transfer from the opening to at least a part of the formation. The transferred heat may pyrolyze at least some hydrocarbons in the formation. In certain embodiments, providing the heat to the opening may include providing heat, heated materials, and/or oxidation products from at least one heater to the opening.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:262390 USPATFULL
TI Methods and systems for heating a hydrocarbon containing formation in situ with an opening contacting the earth's surface at two locations
IN Veenstra, Peter, Sugarland, TX, UNITED STATES
de Rouffignac, Eric Pierreus, Houston, TX, UNITED STATES
Karanikas, John Michael, Houston, TX, UNITED STATES
Vinegar, Harold J., Bellaire, TX, UNITED STATES
Wellington, Scott Lee, Bellaire, TX, UNITED STATES
PI US 2003183390 A1 20031002
US 7063145 B2 20060620
AI US 2002-279292 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8960
ECL Exemplary Claim: 1
DRWN 440 Drawing Page(s)
LN.CNT 64277
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 13 OF 16 USPATFULL on STN
AB In an embodiment, a method of treating a kerogen and liquid hydrocarbon containing formation in situ may include providing heat from one or more heat sources to at least a portion of the formation. Heat may be allowed to transfer from the one or more heat sources to a part of the formation. In some embodiments, at least a portion of liquid hydrocarbons in the part may be mobilized. At least a portion of kerogen in the part may be pyrolyzed. In certain embodiments, a pressure within at least a part of the formation may be controlled. The pressure may be controlled to be at least about 2.0 bars absolute. A mixture may be produced from the formation.

AN 2003:255151 USPATFULL
TI In situ recovery from a kerogen and liquid hydrocarbon containing formation

IN Maher, Kevin Albert, Bellaire, TX, UNITED STATES
Berchenko, Ilya Emil, Friendswood, TX, UNITED STATES
Rouffignac, Eric Pierre de, Houston, TX, UNITED STATES
Karanikas, John Michael, Houston, TX, UNITED STATES
Vinegar, Harold J., Bellaire, TX, UNITED STATES
Wellington, Scott Lee, Bellaire, TX, UNITED STATES
Zhang, Etuan, Houston, TX, UNITED STATES
PI US 2003178191 A1 20030925
US 7011154 B2 20060314
AI US 2002-279287 A1 20021024 (10)
PRAI US 2001-337427P 20011024 (60)
US 2001-337405P 20011024 (60)
US 2002-375043P 20020424 (60)
US 2002-374999P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8600
ECL Exemplary Claim: 1
DRWN 289 Drawing Page(s)
LN.CNT 58114

L9 ANSWER 14 OF 16 USPATFULL on STN
AB A method for treating a coal formation to alter properties of coal in the formation is provided. In one embodiment, heat from one or more heaters may be provided to at least a portion of the formation. Heat may be allowed to transfer from the one or more heaters to a part of the formation. In certain embodiments, the heat from the one or more heaters may pyrolyze at least some hydrocarbons within the part of the formation. The method may include producing a fluid from the formation. In some embodiments, the produced fluid may include at least some pyrolyzed hydrocarbons from the formation. In an embodiment, after at least some coal has been treated at least a portion of such coal may be produced from the formation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:248308 USPATFULL
TI Upgrading and mining of coal
IN Vinegar, Harold J., Bellaire, TX, UNITED STATES
Maher, Kevin Albert, Bellaire, TX, UNITED STATES
Wellington, Scott Lee, Bellaire, TX, UNITED STATES
PI US 2003173085 A1 20030918
US 6969123 B2 20051129
AI US 2002-279286 A1 20021024 (10)
PRAI US 2001-338648P 20011024 (60)
US 2001-337137P 20011024 (60)
US 2002-375000P 20020424 (60)
US 2002-374996P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8593
ECL Exemplary Claim: 1
DRWN 305 Drawing Page(s)
LN.CNT 57197
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 15 OF 16 USPATFULL on STN
AB A method for forming one or more openings in a hydrocarbon containing

formation is described. The method may include forming or providing a first opening in the formation. A plurality of magnets may be provided into the first opening. The plurality of magnets may be positioned along a portion of the first opening. The plurality of magnets may produce a series of magnetic fields along the portion of the first opening. A second opening in the formation may be formed using magnetic tracking of the series of magnetic fields. The second opening may be spaced a desired distance from the first opening. Alternate embodiments include use of an energized conduit to create a magnetic field. Such energized conduit can be used alone or with the plurality of magnets.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:248295 USPATFULL
TI Forming openings in a hydrocarbon containing formation using magnetic tracking
IN Vinegar, Harold J., Bellaire, TX, UNITED STATES
Harris, Christopher Kelvin, Houston, TX, UNITED STATES
Hartmann, Robin Adrianus, Rijswijk, NETHERLANDS
Pratt, Christopher Arnold, Cochrane, CANADA
Lepper, Gordon Bruce, Calgary, CANADA
Wagner, Randolph Rogers, Houston, TX, UNITED STATES
PI US 2003173072 A1 20030918
US 6991045 B2 20060131
AI US 2002-279289 A1 20021024 (10)
PRAI US 2001-334568P 20011024 (60)
US 2001-337136P 20011024 (60)
US 2002-374970P 20020424 (60)
US 2002-374995P 20020424 (60)
DT Utility
FS APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX, 77252-2463
CLMN Number of Claims: 8962
ECL Exemplary Claim: 1
DRWN 441 Drawing Page(s)
LN.CNT 64274
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 16 OF 16 USPATFULL on STN
AB An in situ process for treating a tar sands formation is provided. The process may include providing heat from one or more heaters to at least a portion of the formation. The heat may be allowed to transfer from the one or more heaters to a part of the formation such that heat from the one or more heat sources pyrolyzes at least some hydrocarbons within the part. Hydrocarbons may be produced from the formation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN 2003:223310 USPATFULL
TI In situ thermal processing of a tar sands formation
IN Vinegar, Harold J., Bellaire, TX, UNITED STATES
Rouffignac, Eric Pierre de, Den Haag, NETHERLANDS
Karanikas, John Michael, Houston, TX, UNITED STATES
Maher, Kevin Albert, Bellaire, TX, UNITED STATES
Sumnu-Dindoruk, Meliha Deniz, Houston, TX, UNITED STATES
Wellington, Scott Lee, Bellaire, TX, UNITED STATES
Crane, Steven Dexter, Richardson, TX, UNITED STATES
Messier, Margaret Ann, Calgary, CANADA
Roberts, Bruce Edmunds, Calgary, CANADA
PI US 2003155111 A1 20030821
US 7066254 B2 20060627
AI US 2002-279225 A1 20021024 (10)

PRAI US 2001-337072P 20011024 (60)
      US 2001-337059P 20011024 (60)
      US 2002-375018P 20020424 (60)
      US 2002-375238P 20020424 (60)
DT   Utility
FS   APPLICATION
LREP DEL CHRISTENSEN, SHELL OIL COMPANY, P.O. BOX 2463, HOUSTON, TX,
      77252-2463
CLMN Number of Claims: 8319
ECL   Exemplary Claim: 1
DRWN 372 Drawing Page(s)
LN.CNT 58044
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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